

Patent  
Serial No. 10/510,787  
Amendment in Reply to Office Action of April 19, 2006

ABSTRACT:

A read/write head for an optical disk drive, ~~comprises~~  
including a lens holder (8), a support frame (11, 12, 16),  
means (15) ~~for~~ suspending the lens holder (8) in the support frame,  
~~which means that~~ constrain movement of the lens holder (8) relative  
to the support frame, allowing ~~only an at least~~ limited translation  
in a ~~focussing~~focusing direction (z), parallel to the optical axis  
of a lens (7) in the lens holder (8), ~~an at least~~ limited  
translation in a tracking direction (y), perpendicular to the  
~~focussing~~focusing direction (z), and ~~an at least~~ limited rotation  
about an axis in a tangent direction (x), perpendicular to both the  
~~focussing~~focusing and the tracking ~~directions~~directions. ~~and An~~  
actuator means, ~~comprising only having~~ two conductive  
~~focussing~~focusing coils (9, 10) with a winding axis parallel to the  
~~focussing~~focusing direction (z), each positioned relative to a  
magnetic circuit (11, 12) in such a way that a current flowing  
through a coil (9, 10) ~~gives rise to~~ is arranged to provide a force  
between the lens holder (8) and the support frame in the  
~~focussing~~focusing direction (z). The winding axes of the two

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~~focussing~~focusing coils ~~(9, 10)~~ are positioned on opposite sides of a plane through the center of mass of the lens holder ~~(8)~~, and parallel to the ~~focussing~~focusing and the tangent direction. The ~~focussing~~ coils ~~(9, 10)~~ are spaced apart in the tangent direction ~~(x)~~.